APPENDIX - A

REFERENCES:

- Agoston Dv, Eiden LE, Brenneman DE (1991) Calcium-dependent regulation of the enkephalin phenotype by neuronal activity during early ontogeny. J Neurosci Res 28:140–148.
- Agoston Dv, Santha E, Shieh G, Lala R, Dobi A (1998) Isolation and structural and genetic analysis of the mouse enkephalin gene and its (AC/TG)n repeats. DNA Seq 9:217–226.
- Armstrong RC, Kim JG, Hudson LD (1995) Expression of myelin transcription factor I (MyTI), a "zinc-finger" DNA-binding protein, in developing oligodendrocytes. Glial cells 14:303–321.
- Ausubel et al. (2000) Current Protocols in Molecular Biology, John Wiley & Sons.
- Batzer et al., Nucleic Acid Res. 19:081 (1991).
- Bayer SA, Altman J (1995) Neurogenesis and neuronal migration. San Diego: Academic.
- Boussif O, Lezoualc'h F, Zanta MA, Mergny MD, Scherman D, Demeneix B, Behr JP (1995) A versatile vector for gene and oligonucleotide transfer into cells in culture and *in vivo*: polyethylenimine. Proc Natl Acad Sci USA 92:7297–7301.
- Brenneman DE, Neale EA, Foster GA, d'Autremont SW, Westbrook GL (1987) Nonneuronal cells mediate neurotrophic action of vasoactive intestinal peptide. J Cell Biol 104:1603–1610.
- Brustle O, McKay RD (1996) Neuronal progenitors as tools for cell replacement in the nervous system. Curr Opin Neurobiol 6:688 –695.
- Calof AL (1995) Intrinsic and extrinsic factors regulating vertebrate neurogenesis. Curr Opin Neurobiol 5:19 –27.
- Cepek KL, Chasman DI, Sharp PA (1996) Sequence-specific DNA binding of the B-cell-specific coactivator OCA-B. Genes Dev 10:2079 –2088.
- Clusel C, Meguenni S, Elias I, Vasseur M, Blumenfeld M (1995) Inhibition of HSV-1 proliferation by decoy phosphodiester oligonucleotides containing ICP4 recognition sequences. Gene Expr 4:301–309.
- Cole et al., pp. 77-96 in Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc. (1998).
- Craig CG, Tropepe V, Morshead CM, Reynolds BA, Weiss S, van der Kooy D (1996) *In vivo* growth factor expansion of endogenous subependymal neural precursor cell populations in the adult mouse brain. J Neurosci 16:2649 –2658.

- Dahlstrand J, Lardelli M, Lendahl U (1995) Nestin mRNA expression correlates with the central nervous system progenitor cell state in many, but not all, regions of developing central nervous system. Dev Brain Res 84:109 –129.
- Dobi AL, Palkovits M, Palkovits CG, Santha E, Agoston Dv (1995a) Protein-DNA interactions during phenotypic differentiation. Mol Neurobiol 10:185–203.
- Dobi A, Dameron CT, Hu S, Hamer D, Winge DR (1995b) Distinct regions of Cu(I).ACE1 contact two spatially resolved DNA major groove sites. J Biol Chem 270:10171–10178.
- Dobi A, Palkovits M, Ring MA, Eitel A, Palkovits CG, Lim F, Agoston Dv (1997) Sample and probe: a novel approach for identifying development-specific cis-elements of the enkephalin gene. Mol Brain Res 52:98 –111.
- Durkin RC, Weisinger G, Holloway MP, La Gamma E (1992) Primary sequence of -1436 to +53 bp of the rat preproenkephalin gene putative Z-DNA and regulatory motifs. Biochim Biophys Acta 1131:349 –351.
- Dyer MA, Naidoo R, Hayes RJ, Larson CJ, Verdine GL, Baron MH (1996) A DNA-bending protein interacts with an essential upstream regulatory element of the human embryonic beta-like globin gene. Mol Cell Biol 16:829 –838.
- Eraly SA, Nelson SB, Huang KM, Mellon PL (1998) Oct-1 binds promoter elements required for transcription of the GnRH gene. Mol Endocrinol 12:469 –481.
- Freeman RS, Estus S, Johnson Jr EM (1994) Analysis of cell cycle-related gene expression in postmitotic neurons: selective induction of Cyclin D1 during programmed cell death. Neuron 12: 343–355.
- Gage FH (1998) Cell therapy. Nature 392:18 -24.
- Grosschedl R, Giese K, Pagel J (1994) HMG domain proteins: architectural elements in the assembly of nucleoprotein structures. Trends Genet 10:94 –100.
- He X, Rosenfeld MG (1991) Mechanisms of complex transcriptional regulation: implications for brain development. Neuron 7:183–196.
- Jacobson M (1993) Developmental neurobiology, Ed 3. New York: Plenum.
- Johe KK, Hazel TG, Muller T, Dugich DM, McKay RD (1996) Single factors direct the differentiation of stem cells from the fetal and adult central nervous system. Genes Dev 10:3129 –3140.

- Joshi J, Sabol SL (1991) Proenkephalin gene expression in C6 rat glioma cells: potentiation of cyclic adenosine 3',5'-monophosphate-dependent transcription by glucocorticoids. Mol Endocrinol 5:1069 –1080.
- Kim J, Zwieb C, Wu C, Adhya S (1989) Bending of DNA by gene-regulatory proteins: construction and use of a DNA bending vector. Gene 85:15–23.
- Kim J, Jones BW, Zock C, Chen Z, Wang H, Goodman CS, Anderson DJ (1998) Isolation and characterization of mammalian homologs of the *Drosophila* gene glial cells missing. Proc Natl Acad Sci USA 95:12364 –12369.
- Kim U, Qin XF, Gong S, Stevens S, Luo Y, Nussenzweig M, Roeder RG (1996) The B-cell-specific transcription coactivator OCA-B/OBF-1/Bob-1 is essential for normal production of immunoglobulin isotypes. Nature 383:542–547.
- Knappik et al. J Mol Biol. 2000 296:57-86.
- Knoepfel L, Georgiev O, Nielsen P, Schaffner W (1996) Cloning and characterization of the murine B-cell specific transcriptional coactivator Bob1. Biol Chem Hoppe Seyler 377:139 145.
- Kohler & Milstein, Nature 26:49-497 (1997).
- Konig M, Zimmer AM, Steiner H, Holmes PV, Crawley JN, Brownstein MJ, Zimmer A (1996) Pain responses, anxiety and aggression in mice deficient in pre-proenkephalin. Nature 383:535–538.
- Korn AH, Feairheller SH, Filachione EM (1972) Glutaraldehyde: nature of the reagent. J Mol Biol 65:525–529.
- Kozbor et al., Immunology Today 4: 72 (1983).
- Lemke G (1993) Transcriptional regulation of the development of neurons and Glial cells. Curr Opin Neurobiol 3:703–708.
- Lillien L (1998) Neural progenitors and stem cells: mechanisms of progenitor heterogeneity. Curr Opin Neurobiol 8:37–44.
- Luo Y, Fujii H, Gerster T, Roeder RG (1992) A novel B cell-derived coactivator potentiates the activation of immunoglobulin promoters by octamer-binding transcription factors. Cell 71:231–241.
- Luskin MB (1998) Neuroblasts of the postnatal mammalian forebrain: their phenotype and fate. J Neurobiol 36:221–233.

- Marks et al., Biotechnology:779-783 (1992).
- Martin LJ, Spicer DM, Lewis MH, Gluck JP, Cork LC (1991) Social deprivation of infant rhesus monkeys alters the chemoarchitecture of the brain: I. Subcortical regions. J Neurosci 11:3344 –3358.
- Matthias P (1998) Lymphoid-specific transcription mediated by the conserved octamer site: who is doing what? Semin Immunol 10:155–163.
- Maxam AM, Gilbert W (1977) A new method for sequencing DNA. Proc Natl Acad Sci USA 74:560 –564.
- McCafferty et al., Nature 348:2-4 (1990).
- McCarthy KD, de Vellis J (1980) Preparation of separate astroglial and oligodendroglial cell cultures from rat cerebral tissue. J Cell Biol 85:890 –902.
- McKay R (1997) Stem cells in the central nervous system. Science 276:66 –71.
- Morishita R, Higaki J, Tomita N, Ogihara T (1998) Application of transcription factor "decoy" strategy as means of gene therapy and study of gene expression in cardiovascular disease. Circ Res 82:1023–1028.
- Nielsen PJ, Georgiev O, Lorenz B, Schaffner W (1996) B lymphocytes are impaired in mice lacking the transcriptional co-activator Bob1/ OCA-B/OBF1. Eur J Immunol 26:3214 –3218.
- Ohtsuka et al., J. Biol. Chem. 260:260-2608 (198).
- Osborne JG, Kindy MS, Spruce BA, Hauser KF (1993) Ontogeny of proenkephalin mRNA and enkephalin peptide expression in the cerebellar cortex of the rat: spatial and temporal patterns of expression follow maturational gradients in the external granular layer and in Purkinje cells. Dev Brain Res 76:1–12.
- Perez MJ, Rojo F, de LV (1994) Promoters responsive to DNA bending: a common theme in prokaryotic gene expression. Microbiol Rev 58:268 –290.
- Pincus DW, Goodman RR, Fraser RA, Nedergaard M, Goldman SA (1998) Neural stem and progenitor cells: a strategy for gene therapy and brain repair. Neurosurgery 42:858 –867.
- Rosen H, Douglass J, Herbert E (1984) Isolation and characterization of the rat proenkephalin gene. J Biol Chem 259:14309 –14313.
- Rosenfeld MG (1991) POU-domain transcription factors: pou-er-ful developmental regulators. Genes Dev 5:897–907.
- Rossolini et al., Mol. Cell. Probes 8:91-98 (1994).

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- Rubenstein JL, Beachy PA (1998) Patterning of the embryonic forebrain. Curr Opin Neurobiol 8:18-26.
- Ryoo HD, Mann RS (1999) The control of trunk hox specificity and activity by extradenticle. Genes Dev 13:1704 –1716.
- Saade NE, Atweh SF, Bahuth NB, Jabbur SJ (1997) Augmentation of nociceptive reflexes and chronic deafferentation pain by chemical lesions of either dopaminergic terminals or midbrain dopaminergic neurons. Brain Res 751:1–12.
- Salinas PC, Fletcher C, Copeland NG, Jenkins NA, Nusse R (1994) Maintenance of Wnt-3 expression in Purkinje cells of the mouse cerebellum depends on interactions with granule cells. Development 120:1277–1286.
- Schubart DB, Rolink A, Kosco VM, Botteri F, Matthias P (1996) B-cell-specific coactivator OBF-1/OCA-B/Bob1 required for immune response and germinal centre formation. Nature 383:538 –542.
- Spana C, Corces VG (1990) DNA bending is a determinant of binding specificity for a Drosophila zinc finger protein. Genes Dev 4:1505–1515.
- Swanson HI, Yang JH (1999) Specificity of DNA binding of the c-Myc/ Max and ARNT/ARNT dimers at the CACGTG recognition site. Nucleic Acids Res 27:3205-3212.
- Tang H, Xu Y, Wong SF (1997) Identification and purification of cellular proteins that specifically interact with the RNA constitutive transport elements from retrovirus D. Virology 228:333–339.
- Tijssen *et al.* Techniques in Biochemistry and Molecular Biology-Hybridization with Nucleic Probes, "Overview of principles of hybridization and the strategy of nucleic acid assays" (1993).
- Tjian R (1996) The biochemistry of transcription in eukaryotes: a paradigm for multisubunit regulatory complexes. Philos Trans R Soc Lond B Biol Sci 351:491–499.
- Verrijzer CP, Van der Vliet PC (1993) POU domain transcription factors. Biochim Biophys Acta 1173:1–21.
- Wegner M, Drolet DW, Rosenfeld MG (1993) POU-domain proteins: structure and function of developmental regulators. Curr Opin Cell Biol 5:488 –498.
- Wirth T, Pfisterer P, Annweiler A, Zwilling S, Konig H (1995) Molecular principles of Oct2-mediated gene activation in B cells. Immunobiology 193:161–170.

Yamashita J, Yoshimasa T, Arai H, Hiraoka J, Takaya K, Miyamoto Y, Ogawa Y, Itoh H, Nakao K (1998) Identification of cis-elements of the human endothelin-A receptor gene and inhibition of the gene expression by the decoy strategy. J Biol Chem 273:15993–15999.